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*August 22, 2004*

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**APPLICATION NUMBER:** *60/482,785*
**FILING DATE:** *June 25, 2003*
**RELATED PCT APPLICATION NUMBER:** *PCT/US04/20562*

Certified by

Jon W Dudas

Acting Under Secretary of Commerce
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and Acting Director of the U.S.
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PTO/SB/16 (10-01)
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PTO
06/25/03
60/482785

# PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

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|---|---|

## INVENTOR(S)

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☑ *Additional inventors are being named on the* 1 *separately numbered sheets attached hereto*

## TITLE OF THE INVENTION (500 characters max)

GUI FOR A NETWORK PRIVACY SYSTEM

## CORRESPONDENCE ADDRESS

*Direct all correspondence to:*

☐ Customer Number _____ → *Place Customer Number Bar Code Label here*

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## ENCLOSED APPLICATION PARTS *(check all that apply)*

| | | | |
|---|---|---|---|
| ☑ Specification *Number of Pages* | 22 | ☐ CD(s), Number | |
| ☑ Drawing(s) *Number of Sheets* | 23 | ☐ Other (specify) | |
| ☐ Application Data Sheet. See 37 CFR 1.76 | | | |

## METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT

☐ Applicant claims small entity status. See 37 CFR 1.27.

☑ A check or money order is enclosed to cover the filing fees

☑ The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: 502542

☐ Payment by credit card. Form PTO-2038 is attached.

FILING FEE AMOUNT ($): $80.00

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☑ No.

☐ Yes, the name of the U.S. Government agency and the Government contract number are: _____

*Respectfully submitted,*

SIGNATURE _____ Date 06/25/2003

TYPED or PRINTED NAME Francisco A. Rubio-Campos

REGISTRATION NO. *(if appropriate)* 45,358

TELEPHONE (949) 448-9410

Docket Number: IF03005USV

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# FEE TRANSMITTAL for FY 2003

*Effective 01/01/2003. Patent fees are subject to annual revision.*

☑ Applicant claims small entity status. See 37 CFR 1.27

| TOTAL AMOUNT OF PAYMENT | ($) 80.00 |
|---|---|

| Complete if Known | |
|---|---|
| Application Number | Unknown |
| Filing Date | June 25, 2003 |
| First Named Inventor | Lance M. Cottrell et al. |
| Examiner Name | Not applicable |
| Art Unit | Unassigned |
| Attorney Docket No. | IF03005USV |

## METHOD OF PAYMENT *(check all that apply)*

☐ Check ☑ Credit card ☐ Money Order ☐ Other ☐ None

☑ Deposit Account:

Deposit Account Number: 502542

Deposit Account Name: The Eclipse Group

**The Director is authorized to:** *(check all that apply)*

☑ Charge fee(s) indicated below ☑ Credit any overpayments

☐ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, **except for the filing fee** to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

| Large Entity Fee Code | Large Entity Fee ($) | Small Entity Fee Code | Small Entity Fee ($) | Fee Description | Fee Paid |
|---|---|---|---|---|---|
| 1001 | 750 | 2001 | 375 | Utility filing fee | |
| 1002 | 330 | 2002 | 165 | Design filing fee | |
| 1003 | 520 | 2003 | 260 | Plant filing fee | |
| 1004 | 750 | 2004 | 375 | Reissue filing fee | |
| 1005 | 160 | 2005 | 80 | Provisional filing fee | 80.00 |

**SUBTOTAL (1)** ($) 80.00

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| | Extra Claims | | Fee from below | | Fee Paid |
|---|---|---|---|---|---|
| Total Claims | | -20** = | | X | = |
| Independent Claims | | - 3** = | | X | = |
| Multiple Dependent | | | | | = |

| Large Entity Fee Code | Large Entity Fee ($) | Small Entity Fee Code | Small Entity Fee ($) | Fee Description |
|---|---|---|---|---|
| 1202 | 18 | 2202 | 9 | Claims in excess of 20 |
| 1201 | 84 | 2201 | 42 | Independent claims in excess of 3 |
| 1203 | 280 | 2203 | 140 | Multiple dependent claim, if not paid |
| 1204 | 84 | 2204 | 42 | ** Reissue independent claims over original patent |
| 1205 | 18 | 2205 | 9 | ** Reissue claims in excess of 20 and over original patent |

**SUBTOTAL (2)** ($) 0.00

**or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

| Large Entity Fee Code | Large Entity Fee ($) | Small Entity Fee Code | Small Entity Fee ($) | Fee Description | Fee Paid |
|---|---|---|---|---|---|
| 1051 | 130 | 2051 | 65 | Surcharge - late filing fee or oath | |
| 1052 | 50 | 2052 | 25 | Surcharge - late provisional filing fee or cover sheet | |
| 1053 | 130 | 1053 | 130 | Non-English specification | |
| 1812 | 2,520 | 1812 | 2,520 | For filing a request for *ex parte* reexamination | |
| 1804 | 920* | 1804 | 920* | Requesting publication of SIR prior to Examiner action | |
| 1805 | 1,840* | 1805 | 1,840* | Requesting publication of SIR after Examiner action | |
| 1251 | 110 | 2251 | 55 | Extension for reply within first month | |
| 1252 | 410 | 2252 | 205 | Extension for reply within second month | |
| 1253 | 930 | 2253 | 465 | Extension for reply within third month | |
| 1254 | 1,450 | 2254 | 725 | Extension for reply within fourth month | |
| 1255 | 1,970 | 2255 | 985 | Extension for reply within fifth month | |
| 1401 | 320 | 2401 | 160 | Notice of Appeal | |
| 1402 | 320 | 2402 | 160 | Filing a brief in support of an appeal | |
| 1403 | 280 | 2403 | 140 | Request for oral hearing | |
| 1451 | 1,510 | 1451 | 1,510 | Petition to institute a public use proceeding | |
| 1452 | 110 | 2452 | 55 | Petition to revive - unavoidable | |
| 1453 | 1,300 | 2453 | 650 | Petition to revive - unintentional | |
| 1501 | 1,300 | 2501 | 650 | Utility issue fee (or reissue) | |
| 1502 | 470 | 2502 | 235 | Design Issue fee | |
| 1503 | 630 | 2503 | 315 | Plant issue fee | |
| 1460 | 130 | 1460 | 130 | Petitions to the Commissioner | |
| 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17(q) | |
| 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Stmt | |
| 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) | |
| 1809 | 750 | 2809 | 375 | Filing a submission after final rejection (37 CFR 1.129(a)) | |
| 1810 | 750 | 2810 | 375 | For each additional invention to be examined (37 CFR 1.129(b)) | |
| 1801 | 750 | 2801 | 375 | Request for Continued Examination (RCE) | |
| 1802 | 900 | 1802 | 900 | Request for expedited examination of a design application | |

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)** ($) 0.00

## SUBMITTED BY

| Name (Print/Type) | Francisco A. Rubio-Campos | Registration No. (Attorney/Agent) | 45,358 | (Complete *if applicable*) Telephone | 949-448-9410 |
|---|---|---|---|---|---|
| Signature | | | | Date | June 25, 2003 |

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# PROVISIONAL APPLICATION COVER SHEET
## Additional Page

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| Docket Number | IF03005USV |
|---|---|

**INVENTOR(S)/APPLICANT(S)**

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Number 2 of 2

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U.S. Express Mail No.: EU245163313US
Filing Date: June 25, 2003

PATENT
Docket No. IF03005USV

# GUI FOR A NETWORK PRIVACY SYSTEM

INVENTORS

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&

ROBERT TORRES

## BACKGROUND OF THE INVENTION

[001] **1. Field of the Invention.**

[002] This invention relates generally to network communication systems. In particular, this invention relates to an Internet privacy system capable of operating across multiple platforms.

[003] **2. Related Art.**

[004] As the global computer network known as the Internet continues to grow globally at a rapid pace, an increasing number of people and businesses from around the world are accessing the Internet for both business and personal activities. As a result, the Internet has become a virtual community were people communicate with each other by sending and receiving electronic, voice and image messages for business and pleasure.

These communications include sharing ideas and information, sending personal and business message back and forth, researching information, expressing opinions and ideas both personal and political, and conducting business negotiations and transactions (generally known as "electronic commerce" or "e-commerce"). In response to this new electronic activity, business, governments and certain individuals attempt to identify and track individual Internet users for numerous purposes including, but not limited to, advertising, market research, customizing information of Internet sites (i.e., "websites") snooping and ease dropping on communications, political and law enforcement activities, fraud and malicious activities. Many of these attempts are threats to the individual users of the Internet because they attempt to gain personal information about the user and the user's activities on the Internet (generally referred to as the user's "online activities") typically without the user's express consent or knowledge.

**[005]** These threats typically gain information about the user by logging a user's Internet Protocol ("IP") address (the electronic address that specifically identifies a user's computer to the network) or by installing programs or files on to the user's computer such as "cookies," ActiveX™ applications, Java™, script files, Spyware, or hostile programs such as viruses. These threats allow an outside user, be it a government, business, or individual entity, to perform such tasks as identify a user, obtaining the user's personal information that is stored on the computer (including names, address, financial, private files, and/or other confidential, private and/or sensitive information), and track the user's activities on the Internet including recording every website visited or every email sent or received by the user. Malicious programs such as viruses may also be

installed on the user's computer that can modify, erase or destroy the user's operating system of personal files.

**[006]** Unfortunately, most people that utilize the Internet do not understand technically how networks such as the Internet function nor do they generally appreciate the number and types of threats that they will experience once they connect (i.e., "log-on") to the Internet. Past attempts at protecting users on the internet include using "firewalls" to block certain types of threats from the Internet, virus protection programs for detecting malicious programs, and spyware and cookie file removal software. However, these past attempts do not protect a user's identity because most of these approaches attempt to disinfect a user from intruders after the fact. These past approaches do not protect a user's identity as soon as the user connects to the Internet because connected websites are able to read and identify the user's IP address among other things. A need therefore exist to protect a user's identity as soon as the user connects to the Internet (i.e., known as "surfing the web" or "surfing the Net").

**[007]** Attempts in the past at protecting the user's identity have included allowing a user to connect to an intermediate server connected to the Internet that extracted off the user's IP information and substituted it with the IP address of the intermediate server thus creating an anonymous user that could then continue to surf the Net without worrying that their IP information would be used to identify them.

**[008]** Unfortunately, this approach was too technical and difficult to operate by most Internet users. Therefore, there is a need for a privacy management system that solves

the problems recited above and allows Internet users to easily maintain their privacy by utilizing an anonymous server.

## BRIEF DESCRIPTION OF THE FIGURES

[009] The components in the figures are not necessarily to scale, emphasis instead being placed upon illustrating the principles of the invention. In the figures, like reference numerals designate corresponding parts throughout the different views.

[010] FIG. 1 shows the GUI for entering an activation key.

[011] FIG. 2 shows the GUI for an example setup.

[012] FIG. 3 shows the GUI for an example New User Registration.

[013] FIG. 4 shows the GUI for an existing User Registration.

[014] FIG. 5 shows the GUI for setting the essential program defaults.

[015] FIG. 6 shows the GUI for showing a user that the program was successfully installed.

[016] FIG. 7 shows an example GUI for a system tray The AnonPro client installs into the system tray within windows.

[017] FIG. 8 shows an example GUI for the desired images to be used with the other GUIs described.

[018] FIG. 9 shows an example GUI for the static areas of the control panel.

[019] FIG. 10 shows example GUI for the Paid Privacy Monitor screen.

[020] FIG. 11 shows an example GUI of a Free Privacy Monitor screen.

[021] FIG. 12 shows a example GUI for screen dimensions.

[022] FIG. 13 shows a example GUI for the preferences.

[023] FIG. 14 shows a GUI for the global privacy level.

[024] FIG. 15 shows a GUI for Show Details.

[025] FIG. 16 shows a GUI for Custom Settings.

[026] FIG. 17 and 18 shows a GUI for per site levels.

[027] FIG. 19 shows a GUI for per site settings.

[028] FIG. 20 and 21 shows the GUI to show statistics.

[029] FIG. 22 is a GUI for the help menu.

[030] FIG. 23 shows a GUI for telling the user about the program.

## DETAILED DESCRIPTION

[031] This invention describes a method for providing Internet privacy service which shall be described in relation to example implementation herein referred to as AnonPro. AnonPro may be a specific implementation of our inventions for providing Internet privacy services. The components described in this detailed description and figures are an example implementation for some of our particular applications, however, the technologies and inventions described herein are much more general. The components are generally a network level traffic interceptor (client side), a client proxy, a server proxy, an SSL module, and some web based services (such as the user authentication, server lists, recommended site settings lists etc.). Generically speaking, the combination of the components is an "Internet privacy system." The client part is

"Internet Privacy Client", while the server proxy is "Internet Privacy remote proxy." In the description of this invention we often refer to registry entries or other specific ways of storing information. In all cases this information could be stored in any number of ways including in flat files, indexed files, local or remote databases, among others. In the description of this invention we often refer to cookies. Many other information transfer techniques could be used in place of cookies including HTML headers, changes to URLs or other addresses, any other standard or custom message or data structure. In the description of this invention we often refer to XML data structures. In general these structures could be replaced with any other kind of data structure, including other standard and non-standard, encrypted and non-encrypted structures. CA stands for "Certificate Authority" and refers to an entity or encryption key used for signing other keys such as SSL keys.

[032] Additionally, The AnonPro Server Proxy (also known as the "Internet Privacy Remote Proxy") is a system that relays data from the client on the user's PC to the computer hosting the content or service the user is trying to access through the system's Internet Privacy System (the Destination). The proxy acts to hide the user's IP address and may perform other actions based on the content of the request or the contents of the reply from the Destination. These actions may include adding, changing, or removing text, data, information, scripts or other content from either the data from the user to the destination, or from the destination back to the user. The Internet Privacy Remote Proxy is not used in all modes of the Internet Privacy Client. In some modes the Internet Privacy Client connects directly to the Destination. Whether or not the Internet Privacy

Remote Proxy is used depends on the privacy settings the user has set for that particular site. The Internet Privacy Remote Proxy is only used if the hiding of the user's IP, or the other changes the Remote Proxy makes to the data, are required for the particular settings. Otherwise the connection is direct.

[033] This invention builds on the features and functions of previous projects such as Anonymizer 2.0 (designed and operated by Anonymizer, Inc. of San Diego, California). Some components in the proxy server may need to be modified and at this point it is not known what the scope is. The aim of our user interface is to allow the user to easily navigate through the control settings for the AnonPro Client. The interface should be simple and easy to use. In addition the GUI should be able to meet the current demands and able to evolve to meet future challenges. In FIG. 1, when the client is started, it is loaded into the system tray and displays as an icon. Immediately after that, the client checks to see if it is being run for the first time.

[034] To determin if the wizard needs to run or has already run. FIG. 2 shows the GUI for an example setup. FIG. 3 shows the GUI for an example New User Registration. FIG. 4 shows the GUI for an existing User Registration. FIG. 5 shows the GUI for setting the essential program defaults. FIG. 6 shows the GUI for showing a user that the program was successfully installed.

[035] FIG. 7 shows an example GUI for a system tray The AnonPro client installs into the system tray within windows. The Sys.Tray Icon is that of the Anonymizer logo (a blue shield with an "A" in the middle). By hovering over the blue shield with the mouse and right or left-mouse-click, a menu will display. The menu contains the

following items: Open Control Panel, On/Off toggle, Per Site-Settings, About AnonPro and Exit. Below is an example of the system tray with opened menu list. The menu items in the example below are different than the actual requirements as listed above. The menu items from the list above are accurate and override those shown in the screenshot below. Right mouse pulls up menu. Left mouse pulls up control panel.

**[036]** Default Screen

**[037]** The first screen that is display when the user clicks on the AnonPro icon in the sys tray or selects "Open Anonymizer Pro" is the "Global Settings" screen. FIG. 8 shows an example GUI for the desired images to be used with the other GUIs described.

**[038]** Bitmap images

**[039]** Below are a list of the various images that are needed for the GUI. The icons could also show state change and other information through other changes than those described below.

**[040]** In order to be consistant with our Control panel button colors, we have the icons change colors depending on state of application:

**[041]** ON = Green Anonymizer Icon (this icon shows blue – but change this to green)

**[042]** Off = Red Anonymizer Icon

**[043]** 32x32 Icon =

**[044]** 16x16 image for trash =

**[045]** Non-Categorized Screens

[046] All miscelaneous pop-up boxes (such as "enter user-id and password" popup) will carry over the same look and feels as that of the of the control panels (buttons, colors, text).

[047] FIG. 9 shows and example GUI for the static areas of the control panel.

[048] Static Areas of Control Panel

[049] The control panel is split up into 2 "frames". The frame on the left is a "static area" which does not change between the various screens of the control panel. The frame on the right is the dynamic area of the control panel and will show different values and functionality for each screen.

[050] Static Button attributes

[051] *"On" button* – if selected – turns green. If not selected – turns gray. If mouse hover – text in button turns yellow. If pressed down, the button will turn a darker color of the color it currently is (e.g. green – turns dark green, gray – turns dark gray

[052] *"Off" button* – if selected – turns red. If not selected – turns gray. If mouse hover – text in button turns yellow. If pressed down, the button will turn a darker color of the color it currently is (e.g. green – turns dark red, gray – turns dark gray).

[053] *Privacy Monitor* – if selected – turns green and brings the privacy monitor to the front (if the privacy monitor is already activated, then it is brought to front). If not selected – turns gray. If mouse hover – text turns yellow. If pressed down, the button will turn a darker color of the color it currently is (e.g. green – turns dark green, gray – turns dark gray).

[054] By selecting the privacy monitor – a small window displays (separate to the control panel), at the bottom-right corner of Windows, statistics on the privacy functions that are working (as selected by the user in the "privacy settings" control panel). For example the "privacy monitor" would display the privacy values for a given page with count statistics.

[055] If the "docking" option in preferences screen (see "Preferences" section) is selected, then the "privacy monitor" screen is placed at the bottom right corner of the windows desktop.

[056] If the user wants to move the window, then he/she can click anywhere on the window and drag it with the mouse. Also, there is no min/max or close bottons as shown in the example below since this is a title-less window.

[057] FIG. 10 shows a GUI for a Paid Privacy Monitor screen. FIG. 11 shows an example GUI of a Free Privacy Monitor screen. Some versions of the AnonPro client may not actually filter or block anything (e.g. all functionality is turned off). The Control Panel screens may be in "read only" mode and all GUI checkboxes will be inactivated.

[058] *Wash Now* – if selected – turns green for 5 seconds (to simulate washing). If not selected – turns gray. If mouse hover – text turns yellow. If pressed down, the button will turn a darker color of the color it currently is (e.g. green – turns dark green, gray – turns dark gray).

[059] The wash now button will call the AnonWasher application (not part of the AnonPro Client and sold separately). The AnonPro Client will know where the executable of the AnonWasher by reading a registry setting.

[060] *Help* – if selected – turns green and pops up a separate "Help" window (see section 4.4.7. below). If not selected – turns light gray (as shown above). If pressed down, the button will turn a darker color of the color it currently is (e.g. green – turns dark green, gray – turns gray). If mouse hover – text turns yellow.

[061] *About* – if selected – turns green and pops up a separate "About" window (see section 4.4.8. below). If not selected – turns light gray (as shown above). If mouse hover – text turns yellow. If pressed down, the button will turn a darker color of the color it currently is (e.g. green – turns dark green, gray – turns gray).

[062] *Options* – There are a number of items in the options section in a list box and are detailed in the following pages: global privacy level, per site privacy level, privacy statistics, and preferences. Upon selecting any of these items, the selected list item turns gray with white text.

[063] *Dialog Size* – All control panel window sizes are fixed (and not sizable). The Size of the control panel should be determined upon creating the actual GUI to ensure that no restrictions on displaying all functionality caused in displaying the control panel window.

[064] *Minimize/Max* – Pressing the minimize puts the window in the task bar of windows. Prefixing "X" closes the window and hides the control panel in the system tray. Maximize does nothing – as the window is not sizable.

[065] FIG. 12 shows a example GUI for screen dimensions.

[066] FIG. 13 shows a example GUI for the preferences.

[067] Launch AnonPro once windows starts. In the preferences settings GUI, the user has the capability of specifying whether the AnonPro client should start automatically when windows start – or not. Upon AnonPro client startup, it will read a registry setting to determine if anonpro should be started and will do so accordingly.

[068] Automatically log-in to AnonPro. In the preferences settings GUI, the user can select whether AnonPro logs the user in and authenticates the user with the Anonymizer Web-Server. If "remember me" is selected by the user, the AnonPro client will read this setting from the registry upon startup and automatically log the user in to the Anonymizer Web-Site using the username and password in order to authenticate the user with the anonymizer. If the user has selected "remember me" but did not supply (and store) a user-name and password, a dialog box will appear which prompts the user to enter their user-name and password (with the option to store these values permanently). In which the preferences screen above should also have a button to the right of this option "user-name and password" that allows the user to pull up the same dialog box.

[069] Display Privacy Monitor once AnonPro starts up. In the preferences settings GUI, the user can select whether AnonPro Privacy monitor automatically is displayed once the client starts up. In addition, the user can indicate if the privacy monitor always be on top or not.

[070] Auto-Update. In the preferences settings GUI, the user can select whether he/she will be notified of an auto-update of lists and binaries. During Authorization, the Web-Server will check to see if any new files are available for uploading to the client. If so, these files will be uploaded to the client.

[071] Prompt me before updating. In the preferences settings GUI, the user can select whether he/she will be prompted each time for new lists before they are automatically inserted.

[072] Wash System before quiting AnonPro. In the preferences settings GUI, the user has the capability to specify whether the AnonWasher should "wash" when the client is quit.

[073] Don't save recently saved site URL's . In the preferences settings GUI, the user has the capability to specify whether the resently visite URL's are actually shown in the list box in the GUI "Per Site Preference Settings" (see section 3.10.7). If the user selects to turn this off, then the recently visited sites are not stored in the list box and this list box is left empty and never logs any recently visited sites.

[074] Always ask to confirm changes to settings. Everytime they leave a screen or leave the program and have made chagnes, a dialog box pops up asking if they want to save changes.

[075] Enable sounds. If selected, the sounds AnonPro sound effects are turned on. If selected, each time a cookie, pop-up, etc is filtered or blocked, a sound effect is played. (sound effect to be determined for each type of block or filter).

[076] Washer Preferences. This button will pull up the AnonWasher configuration screen. AnonPro will check the registry setting of "AnonWasher_Home" and then call the AnonWasher from the directory which is stored in this setting. If selected – turns green and pops up a separate "AnonWasher Preferences" window (the AnonWasher is a separate application that the client calls. If not selected – turns gray (as shown above). If

mouse hover – text turns yellow. If pressed down, the button will turn a darker color of the color it currently is (e.g. green – turns dark green, gray – turns dark gray).

[077] UNUSED

[078] FIG. 14 shows a GUI for the global privacy level.

[079] Slider. The slider in the global privacy level allows the user to easily change from the following levels: Trusted - (the User selected URL does not require to go through our proxy); Low - (Protected Mode: goes through our proxy and a minimum amount of settings); Medium - (Protected Mode: goes through our proxy and a moderate amount of settings); High - (Protected Mode: goes through our proxy and a high amount of settings); Maximum - (Protected Mode: goes through our proxy and ALL settings); Blocked - (Protected Mode: blocks all connections completely. This option not shown in the figure); and Custom - (Custom: gives the user the capability to select their own specific settings). Each of the above slider settings may correspond to a pre-defined set of privacy settings.

[080] FIG. 15 shows a GUI for Show Details. This will hide the explanation text and image area and replace this with details of the settings and checkboxes for each setting to turn on or off. If selected – turns dark gray and replace the details to the right with an image. The button then changes text to "Show details". If "show details" is selected – turns light gray and replaces the image to the right with the details for that screen. If mouse hover – text turns yellow. If pressed down, the button will turn a darker color of the color it currently is (e.g. gray – turns dark gray).

**[081]** Hide Details. This will hide the check boxes with the details of the settings and replace this area with an image. As of this current version of this document, we did not have the images ready. The size of the screen stays the same. If selected – turns dark gray and replace the details to the right with an image. The button then changes text to "Show details". If "show details" is selected – turns light gray and replaces the image to the right with the details for that screen. If mouse hover – text turns yellow. If pressed down, the button will turn a darker color of the color it currently is (e.g. gray – turns dark gray).

**[082]** FIG. 16 shows a GUI for Custom Settings. If the user moves the slider up to the "custom" area at the top of the slider, the custom settings for all functionality will be displayed with checkboxes to allow the user to either activate or deactivate each setting. Once the user changes any of the settings, these settings will be stored in the registry permanently. There is no need (or capability) for the user to save these custom settings.

**[083]** Example Matrix of different settings

| Requirements features | Where | Trusted | Protected "low" | Protected "medium" | Protected "high" | Protected "maximum" | Custom |
|---|---|---|---|---|---|---|---|
| Popup Blocking | Client | | X | X | X | X | Optional |
| Ad Blocking | Client | | X | X | X | X | Optional |
| 3rd Party Cookies | Client | | X | X | X | X | Optional |
| Web Bugs | Client | | X | X | X | X | Optional |
| IP Hiding | Proxy | | | X | X | X | Optional |
| Referer Hiding | Client | | | X | X | X | Optional |
| Page Title hiding | Client | | | X | X | X | Optional |
| Modify Cookies | Proxy | | | X | X | X | Optional |
| OS Hiding | Client | | | | X | X | Optional |
| SSL fulltime | Proxy | | | | X | X | Optional |
| JavaScript Filtering | Proxy | | | | X | X | Optional |
| Active X Filtering | Proxy | | | | X | X | Optional |
| Java Filtering | Proxy | | | | X | X | Optional |
| VB Script Filtering | Proxy | | | | X | X | Optional |
| Active X Blocking | Client | | | | | X | Optional |
| Block Cookies | Client | | | | | X | Optional |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Java Blocking | Client | | | | | X | Optional |
| Java Script Blocking | Client | | | | | X | Optional |
| Blinking Text Block | Client | | | | | | Optional |
| Background Music | Client | | | | | | Optional |

[084] Privacy and Security.

[085] Referrer Hiding.

[086] Will suppress the referrer information that is passed in HTTP protocol.

[087] OS Hiding

[088] Replace the operating system and browser version information passed by the browser with generic information.

[089] FIG. 17 and 18 shows a GUI for per site levels. If the recent sites box is empty, and the user tries to "Add", then the nothing happens. No error box is displayed – but rather we feel it is intuitive that the user realizes that nothing happened because there was nothing that could be selected to be added. No pop-up error is displayed. For "Add Manually" this is the same case as well. If the user clicks on "Add" but hasn't typed anything in the text-box, then nothing will happen. We assume that the user will realize that they haven't typed anything in to add. No pop-up error is displayed.

[090] If the user tries to add a site that already exists in my-sites, then it acts like it adds it, but doesn't actually because that site already exists. No pop-up error is displayed.

[091] FIG. 19 shows a GUI for per site settings. If the user selects from the Threat-Bar the "Custom" level, the "non-selectable" settings are changed to "check-box" settings to allow the user to make modifications to the settings.

[092] If the user selects from the Threat-bar the "Block" level, then the "dynamic data" section of the screen (the right hand side) does not display the actual settings (as shown above), but rather shows a summary what "blocked" means (corresponds to the "Hide settings" screens).

[093] FIG. 20 and 21 shows the GUI to show statistics. From the screen example above, the arrow indicates, sortable. Any columns may be sortable. If the user decides to "set" a sites privacy settings from the "recent sites" list, then site is moved to the My Sites section of the screen after the user has finished setting.

[094] The my sites is able to allow users to be "set" as well. Therefore, in the "my sites" section we may have a gray button background behind the actual current level setting. If the user selects, then it allows for editing of the per-site settings and pop up the per-site perf. screen.

[095] FIG. 22 is a GUI for the help menu. Upon clicking on the help button a new window will appear with the help contents displayed. The help contents are generated using standard Windows help system. FIG. 22 displays as an example way we could display help.

[096] FIG. 23 shows a GUI for telling the user about the program.

[097] The processes described in may be performed by hardware or software. If the process is performed by software, the software may reside in software memory (not shown) in the controller, memory, or a removable memory medium. The software in memory may include an ordered listing of executable instructions for implementing logical functions (i.e., "logic" that may be implement either in digital form such as digital

circuitry or source code or in analog form such as analog circuitry or an analog source such an analog electrical, sound or video signal), may selectively be embodied in any computer-readable (or signal-bearing) medium for use by or in connection with an instruction execution system, apparatus, or device, such as a computer-based system, processor-containing system, or other system that may selectively fetch the instructions from the instruction execution system, apparatus, or device and execute the instructions. In the context of this document, a "computer-readable medium" and/or "signal-bearing medium" is any means that may contain, store, communicate, propagate, or transport the program for use by or in connection with the instruction execution system, apparatus, or device. The computer readable medium may selectively be, for example but not limited to, an electronic, magnetic, optical, electromagnetic, infrared, or semiconductor system, apparatus, device, or propagation medium. More specific examples "a non-exhaustive list" of the computer-readable medium would include the following: an electrical connection "electronic" having one or more wires, a portable computer diskette (magnetic), a RAM (electronic), a read-only memory "ROM" (electronic), an erasable programmable read-only memory (EPROM or Flash memory) (electronic), an optical fiber (optical), and a portable compact disc read-only memory "CDROM" (optical). Note that the computer-readable medium may even be paper or another suitable medium upon which the program is printed, as the program can be electronically captured, via for instance optical scanning of the paper or other medium, then compiled, interpreted or otherwise processed in a suitable manner if necessary, and then stored in a computer memory.

[098] In general, the system described provides for Consensual Man in the Middle Attack by using used to rewrite pages, on the fly creation of site SSL certificates, CA cert to sign all SSL site certificates, CA cert is generated per user, CA cert is automatically installed in the browser and SSL page rewriting. Where the SSL page rewriting included the Client decrypting SSL pages to rewrite before re-encrypting and sending to proxy or end web site.

[099] The system also provides for the Client to Insert information into data stream from browser to Internet through any kind of Header or by inserting cookies. The cookies may include authentication / access rights information and preferences information and utilize XML and encryption.

[0100] The system may also provides for a TCP level hook for privacy service that includes the Hook redirecting traffic to a local proxy on the user's machine, the Client proxy redirecting traffic to Anonymizer proxy and the TCP hook allows IP hiding.

[0101] The system may also provides for a Full time SSL without URL prefixing.

[0102] The system may also provides for making cookies session only and/or change cookie expiration date.

[0103] The system may also provides for gathering and generation Privacy Statistics that include Per site privacy statistics, a Privacy Analyzer real time threat display, and automated site threat analysis and rating.

[0104] The system may also provides for setting per site privacy settings that include white lists, black lists, detailed custom settings, "Show details" functionality, recommended site settings list that include automatically updated and downloaded

settings, and hard coded Site settings that can't be changed by user have preset defaults and an exception list for some sites.

**[0105]** The system may also provides for the Client to keep a list of alternate access names / IP addresses for accessing servers. The Client may tries all addresses one after another and/or each user gets a different set of access addresses.

**[0106]** The system may also provides allows install on many computers while detect and prevent multiple simultaneous users.

**[0107]** The system may also provides allows Client Javascript [script] rewriting.

**[0108]** The system utilizes a novel GUI design to manage information.

**[0109]** While various embodiments of the application have been described, it will be apparent to those of ordinary skill in the art that many more embodiments and implementations are possible that are within the scope of this invention. Accordingly, the invention is not to be restricted except in light of the attached claims and their equivalents. The foregoing description of an implementation has been presented for purposes of illustration and description. It is not exhaustive and does not limit the claimed inventions to the precise form disclosed. Modifications and variations are possible in light of the above description or may be acquired from practicing the invention. For example, the described implementation includes software but the invention may be implemented as a combination of hardware and software or in hardware alone. Note also that the implementation may vary between systems. The claims and their equivalents define the scope of the invention.

## CLAIMS

**What is claimed is:**

1. A method for allowing a user to connect to a privacy network comprising:

connecting to the network;

receiving a user name and password from a user; and

determining whether the user account is valid.

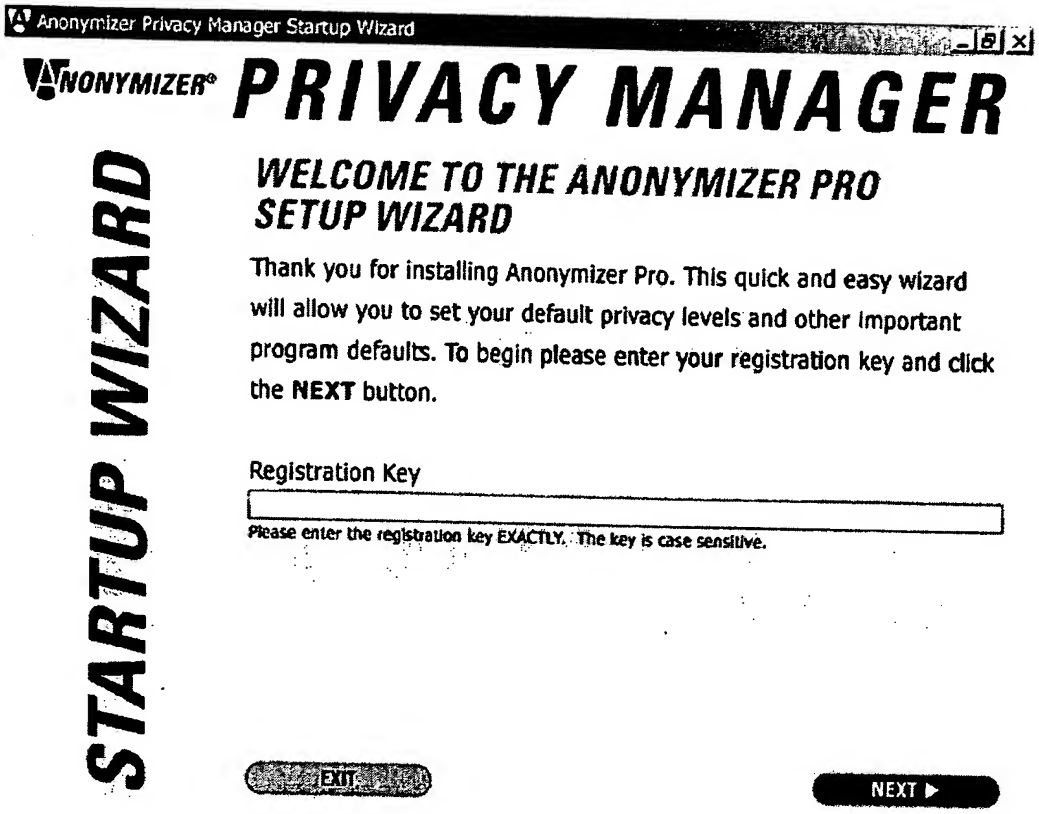
Anonymizer Privacy Manager Startup Wizard
ANONYMIZER®
PRIVACY MANAGER
STARTUP WIZARD
WELCOME TO THE ANONYMIZER PRO SETUP WIZARD
Thank you for installing Anonymizer Pro. This quick and easy wizard will allow you to set your default privacy levels and other important program defaults. To begin please enter your registration key and click the NEXT button.
Registration Key
Please enter the registration key EXACTLY. The key is case sensitive.
EXIT
NEXT ▶

FIG. 1

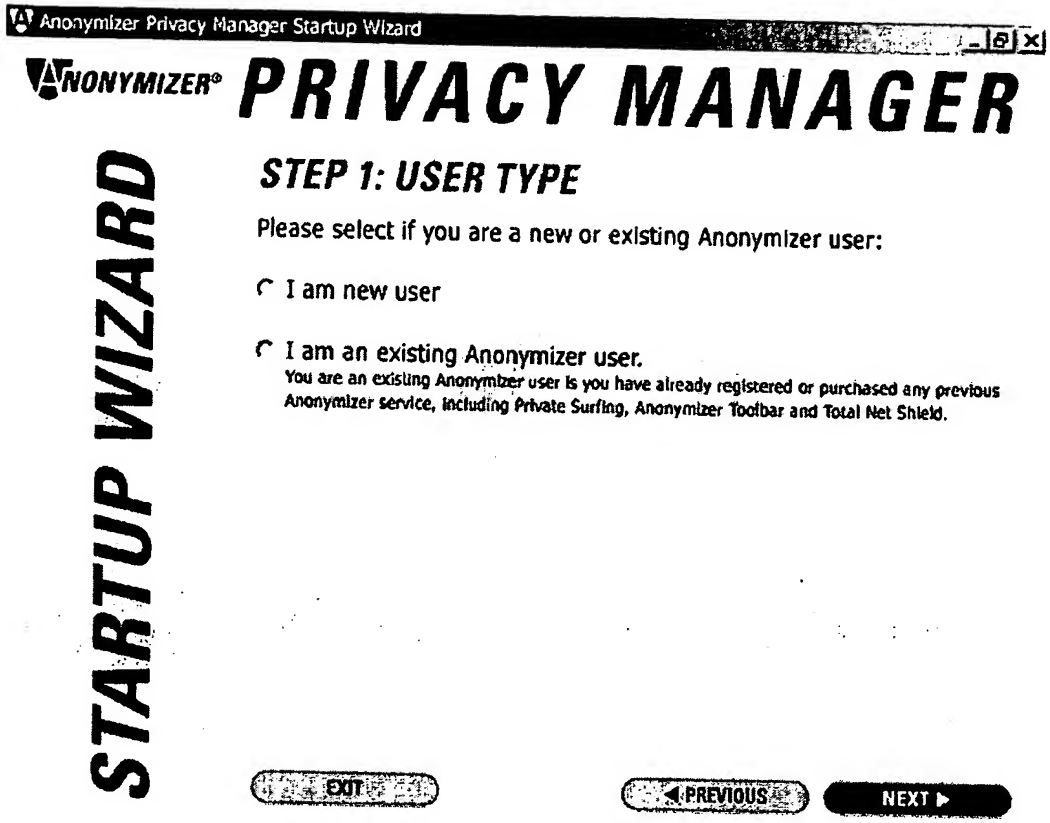
Anonymizer Privacy Manager Startup Wizard
ANONYMIZER®
PRIVACY MANAGER
STARTUP WIZARD
STEP 1: USER TYPE
Please select if you are a new or existing Anonymizer user:
I am new user
I am an existing Anonymizer user.
You are an existing Anonymizer user is you have already registered or purchased any previous Anonymizer service, including Private Surfing, Anonymizer Toolbar and Total Net Shield.
EXIT
PREVIOUS
NEXT

FIG. 2

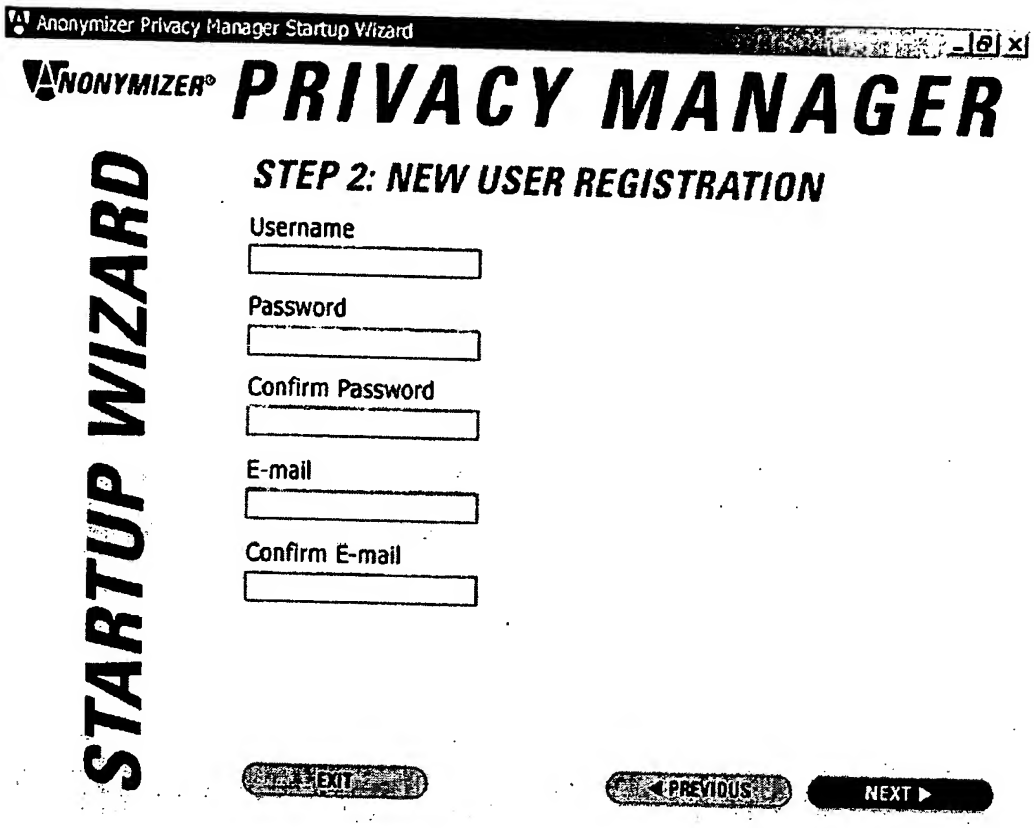
Anonymizer Privacy Manager Startup Wizard
ANONYMIZER®
PRIVACY MANAGER
STARTUP WIZARD
STEP 2: NEW USER REGISTRATION
Username
Password
Confirm Password
E-mail
Confirm E-mail
EXIT
PREVIOUS
NEXT

FIG. 3

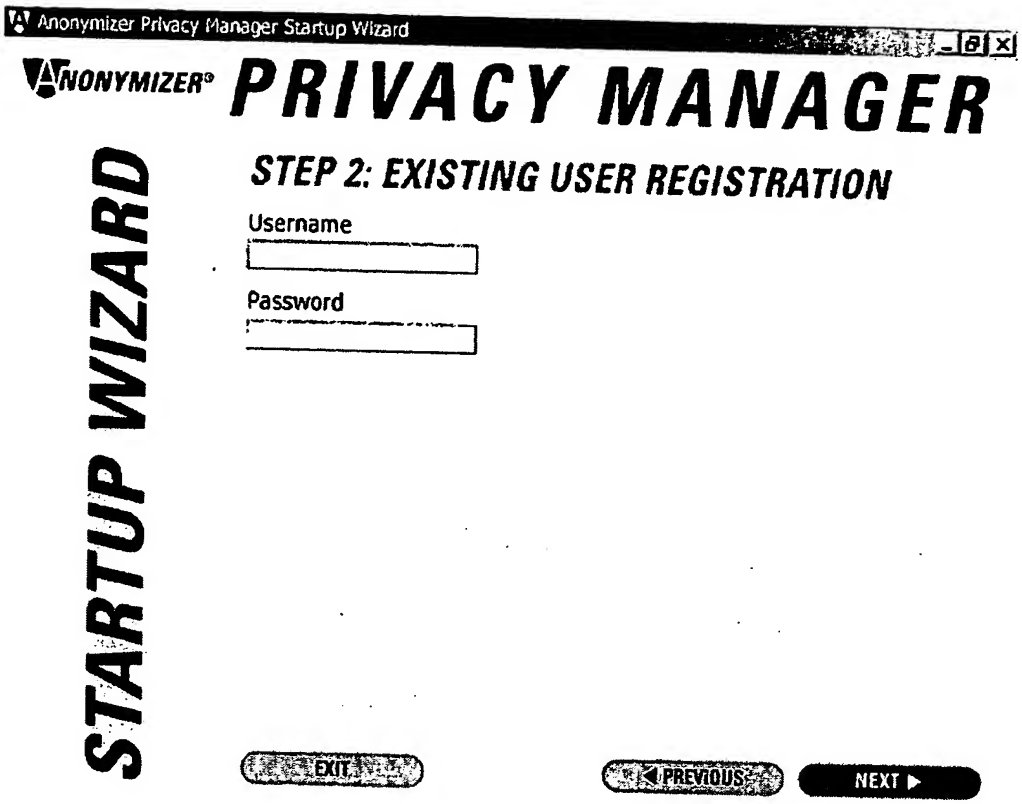
Anonymizer Privacy Manager Startup Wizard
ANONYMIZER®
PRIVACY MANAGER
STARTUP WIZARD
STEP 2: EXISTING USER REGISTRATION
Username
Password
EXIT
PREVIOUS
NEXT

FIG. 4

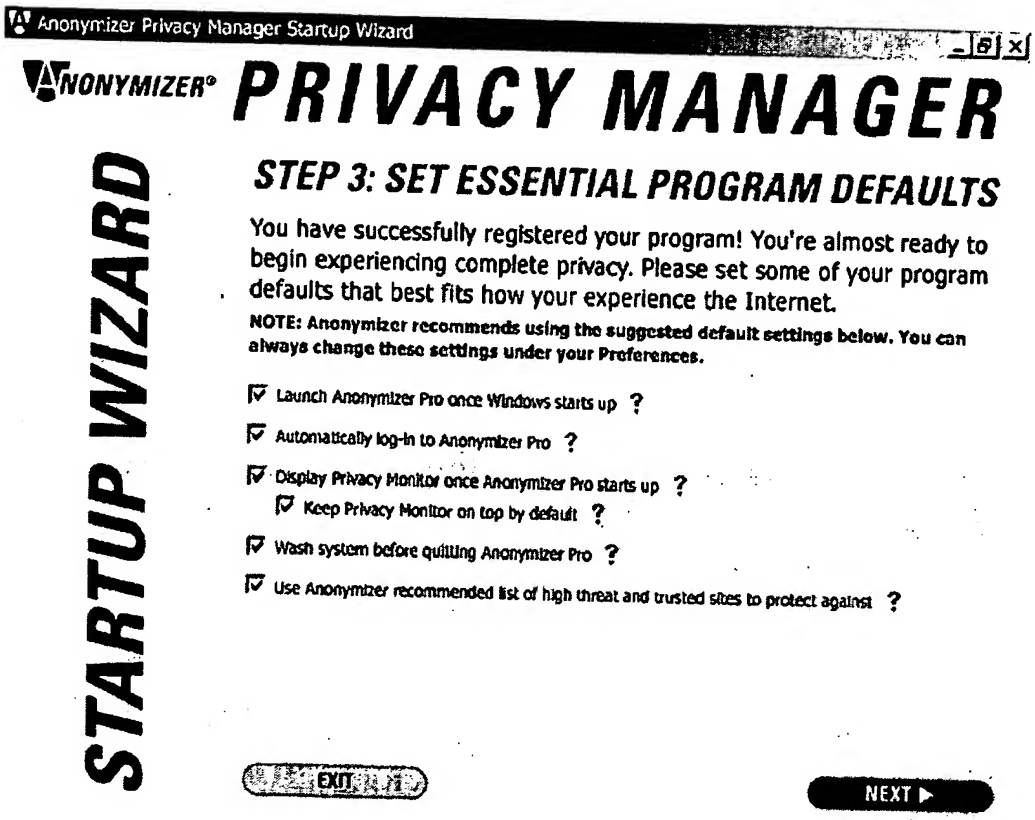
Anonymizer Privacy Manager Startup Wizard
ANONYMIZER®
PRIVACY MANAGER
STARTUP WIZARD
STEP 3: SET ESSENTIAL PROGRAM DEFAULTS
You have successfully registered your program! You're almost ready to begin experiencing complete privacy. Please set some of your program defaults that best fits how your experience the Internet.
NOTE: Anonymizer recommends using the suggested default settings below. You can always change these settings under your Preferences.
Launch Anonymizer Pro once Windows starts up ?
Automatically log-in to Anonymizer Pro ?
Display Privacy Monitor once Anonymizer Pro starts up ?
Keep Privacy Monitor on top by default ?
Wash system before quitting Anonymizer Pro ?
Use Anonymizer recommended list of high threat and trusted sites to protect against ?
EXIT
NEXT ▶

FIG. 5

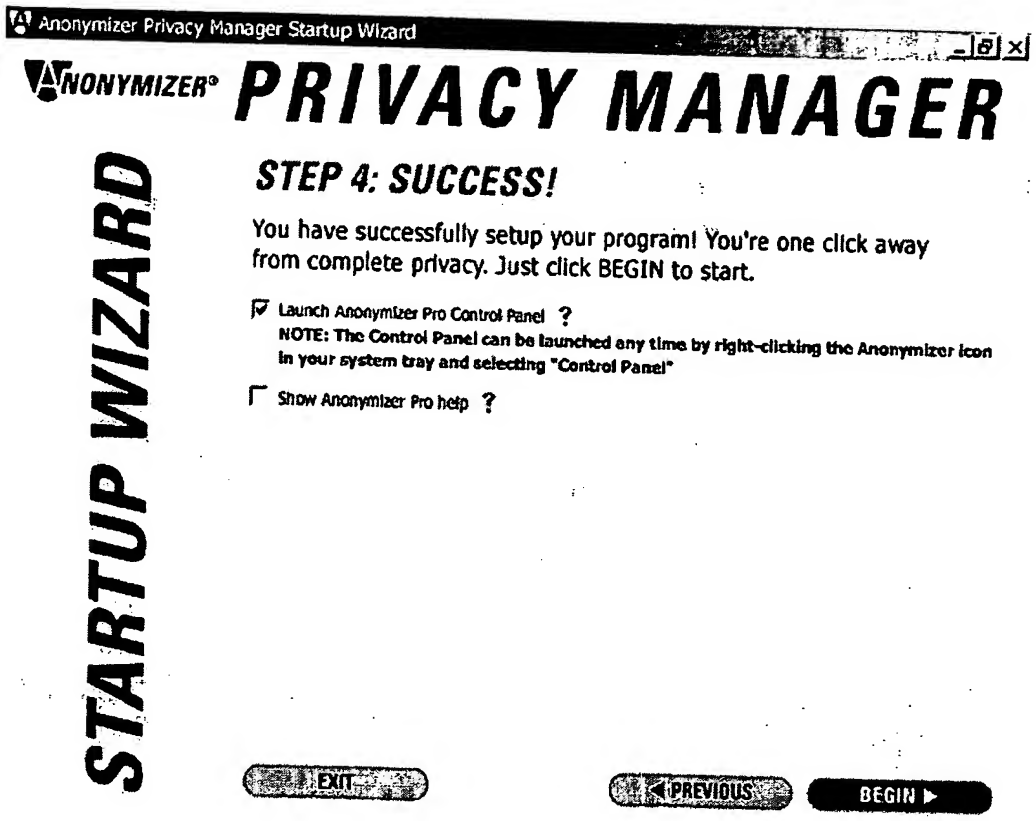
Anonymizer Privacy Manager Startup Wizard
ANONYMIZER®
PRIVACY MANAGER
STARTUP WIZARD
STEP 4: SUCCESS!
You have successfully setup your program! You're one click away from complete privacy. Just click BEGIN to start.
Launch Anonymizer Pro Control Panel ?
NOTE: The Control Panel can be launched any time by right-clicking the Anonymizer icon in your system tray and selecting "Control Panel"
Show Anonymizer Pro help ?
EXIT
PREVIOUS
BEGIN

FIG. 6

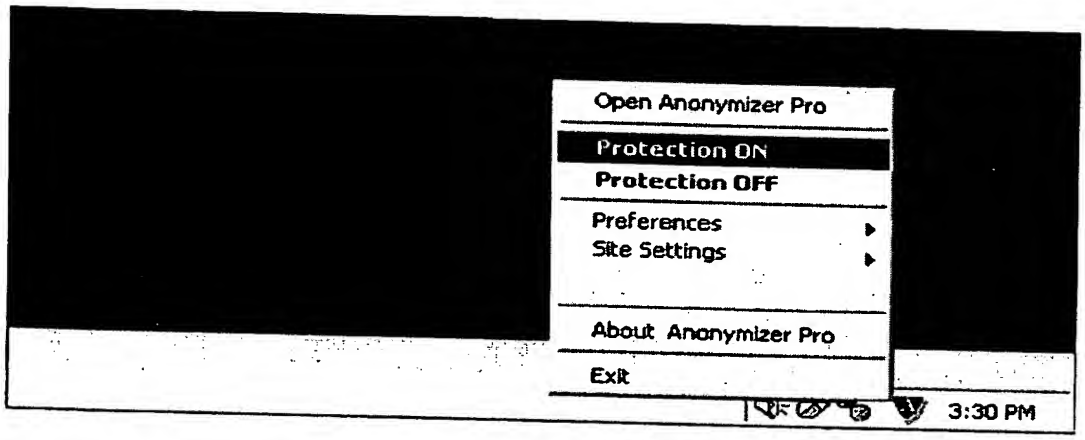
Open Anonymizer Pro
Protection ON
Protection OFF
Preferences
Site Settings
About Anonymizer Pro
Exit
3:30 PM

FIG. 7

FIG. 8

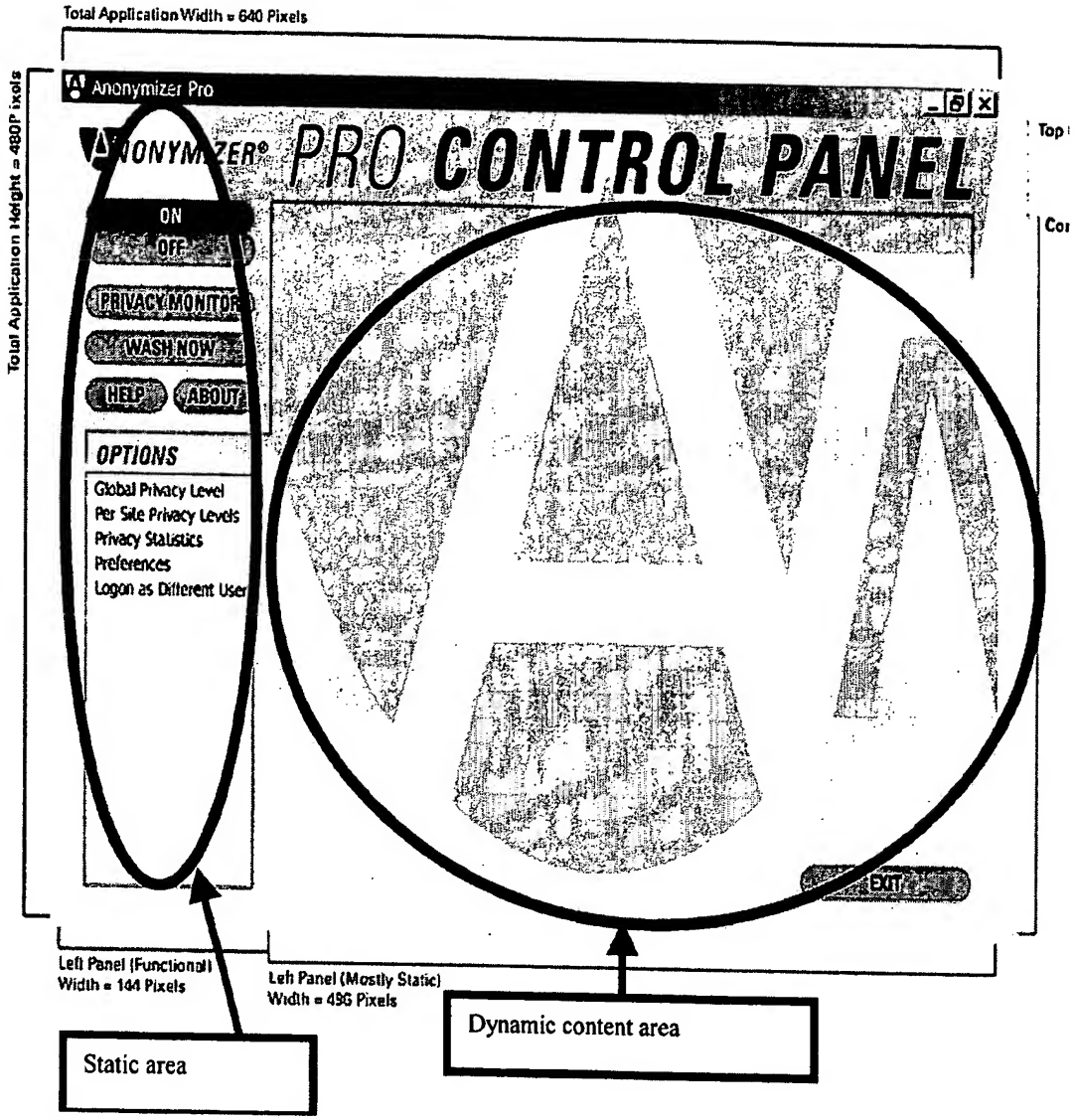
Total Application Width = 640 Pixels
Total Application Height = 480 Pixels
Anonymizer Pro
PRO CONTROL PANEL
ON
OFF
PRIVACY MONITOR
WASH NOW
HELP
ABOUT
OPTIONS
Global Privacy Level
Per Site Privacy Levels
Privacy Statistics
Preferences
Logon as Different User
EXIT
Left Panel (Functional)
Width = 144 Pixels
Leh Panel (Mostly Static)
Width = 496 Pixels
Static area
Dynamic content area

FIG. 9

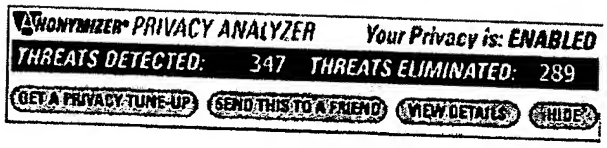
ANONYMIZER® PRIVACY ANALYZER
Your Privacy is: ENABLED
THREATS DETECTED: 347
THREATS ELIMINATED: 289
GET A PRIVACY TUNE-UP
SEND THIS TO A FRIEND
VIEW DETAILS
HIDE

FIG. 10

ANONYMIZER
FREE PRIVACY ANALYZER
Threat Type
Detected
Cookies 42
Popups 87
Web Bugs 17
Other Threats 87
TOTAL 347
BUY IT NOW
AND ELIMINATE THESE THREATS!
GET A PRIVACY TUNE-UP
VIEW ALL THREATS
SEND THIS TO A FRIEND
HIDE

FIG. 11

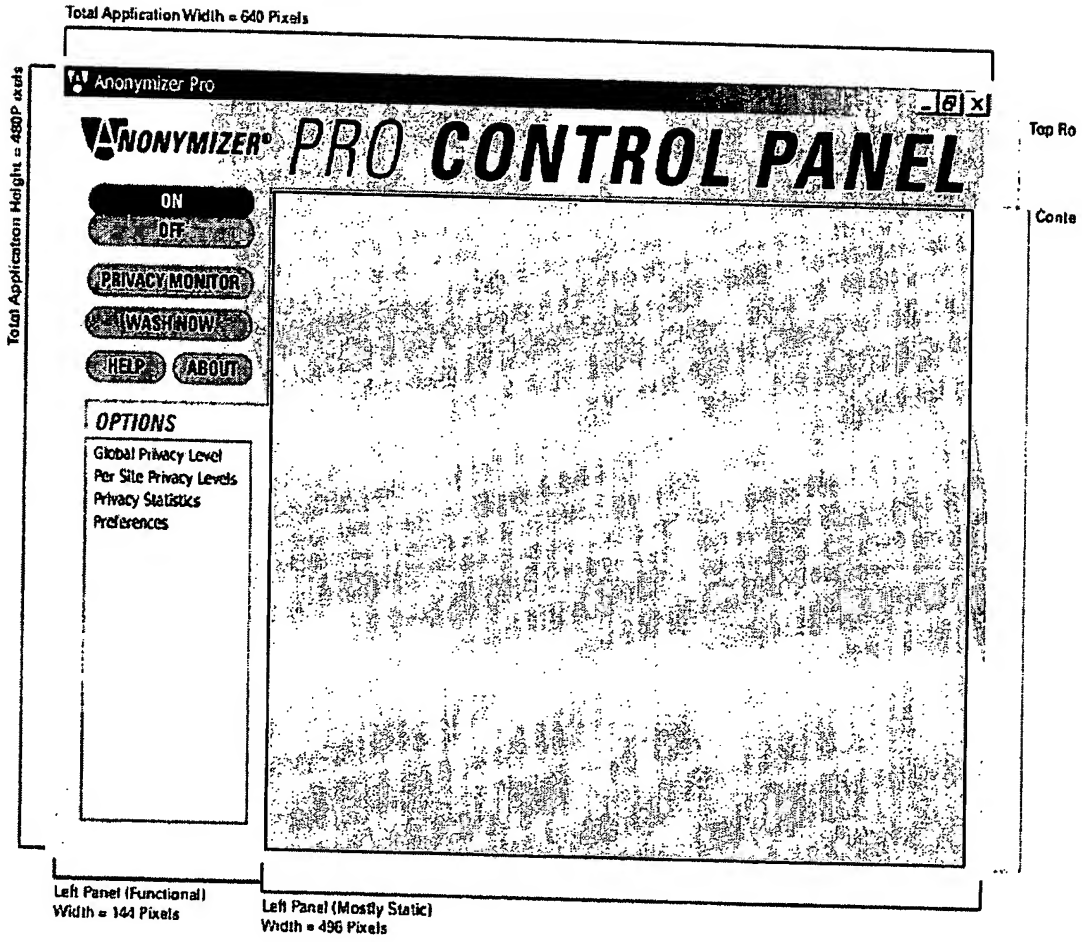
Total Application Width = 640 Pixels
Total Application Height = 480P axels
Anonymizer Pro
ANONYMIZER® PRO CONTROL PANEL
ON
OFF
PRIVACY MONITOR
WASH NOW!
HELP
ABOUT
OPTIONS
Global Privacy Level
Per Site Privacy Levels
Privacy Statistics
Preferences
Top Ro
Conte
Left Panel (Functional)
Width = 144 Pixels
Left Panel (Mostly Static)
Width = 496 Pixels

FIG. 12

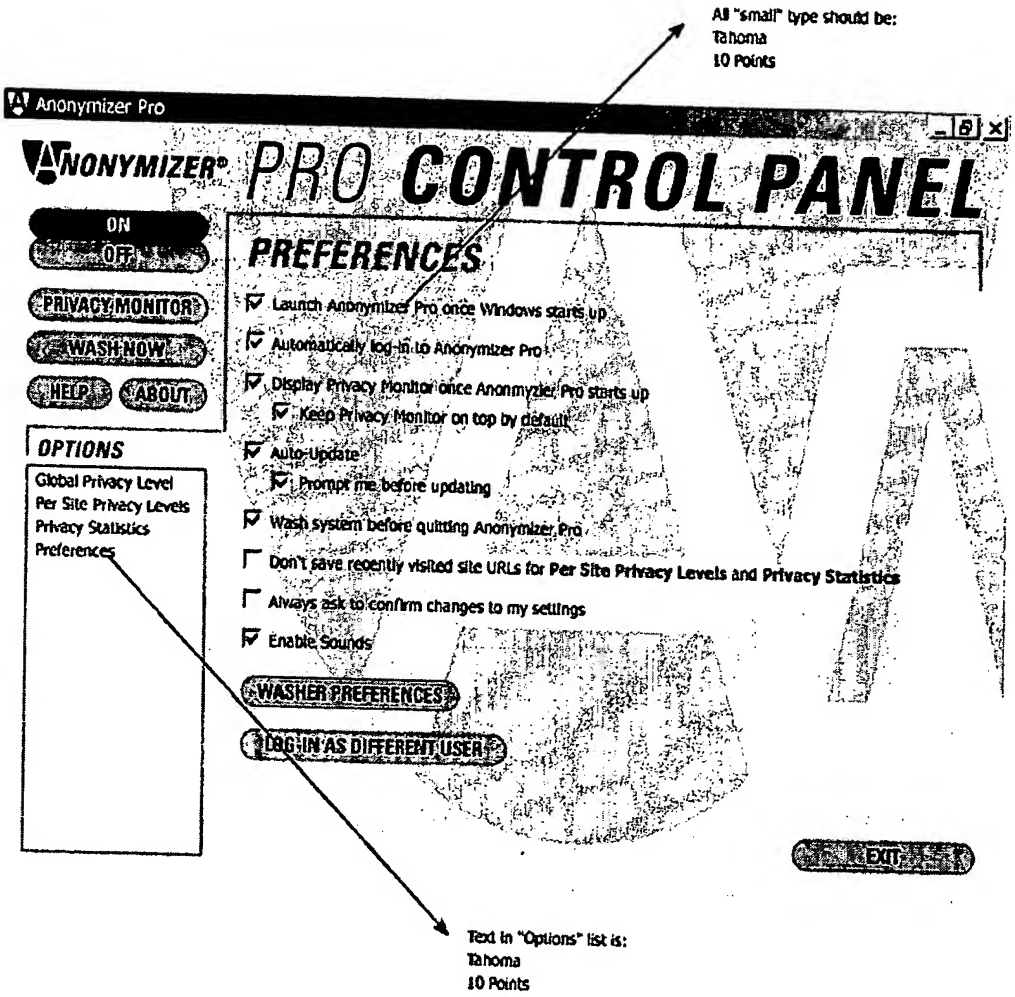
All "small" type should be:
Tahoma
10 Points
Anonymizer Pro
ANONYMIZER® PRO CONTROL PANEL
ON
OFF
PRIVACY MONITOR
WASH NOW
HELP
ABOUT
OPTIONS
Global Privacy Level
Per Site Privacy Levels
Privacy Statistics
Preferences
PREFERENCES
Launch Anonymizer Pro once Windows starts up
Automatically log-in to Anonymizer Pro
Display Privacy Monitor once Anonymizer Pro starts up
Keep Privacy Monitor on top by default
Auto-Update
Prompt me before updating
Wash system before quitting Anonymizer Pro
Don't save recently visited site URLs for Per Site Privacy Levels and Privacy Statistics
Always ask to confirm changes to my settings
Enable Sounds
WASHER PREFERENCES
LOG-IN AS DIFFERENT USER
EXIT
Text in "Options" list is:
Tahoma
10 Points

FIG. 13

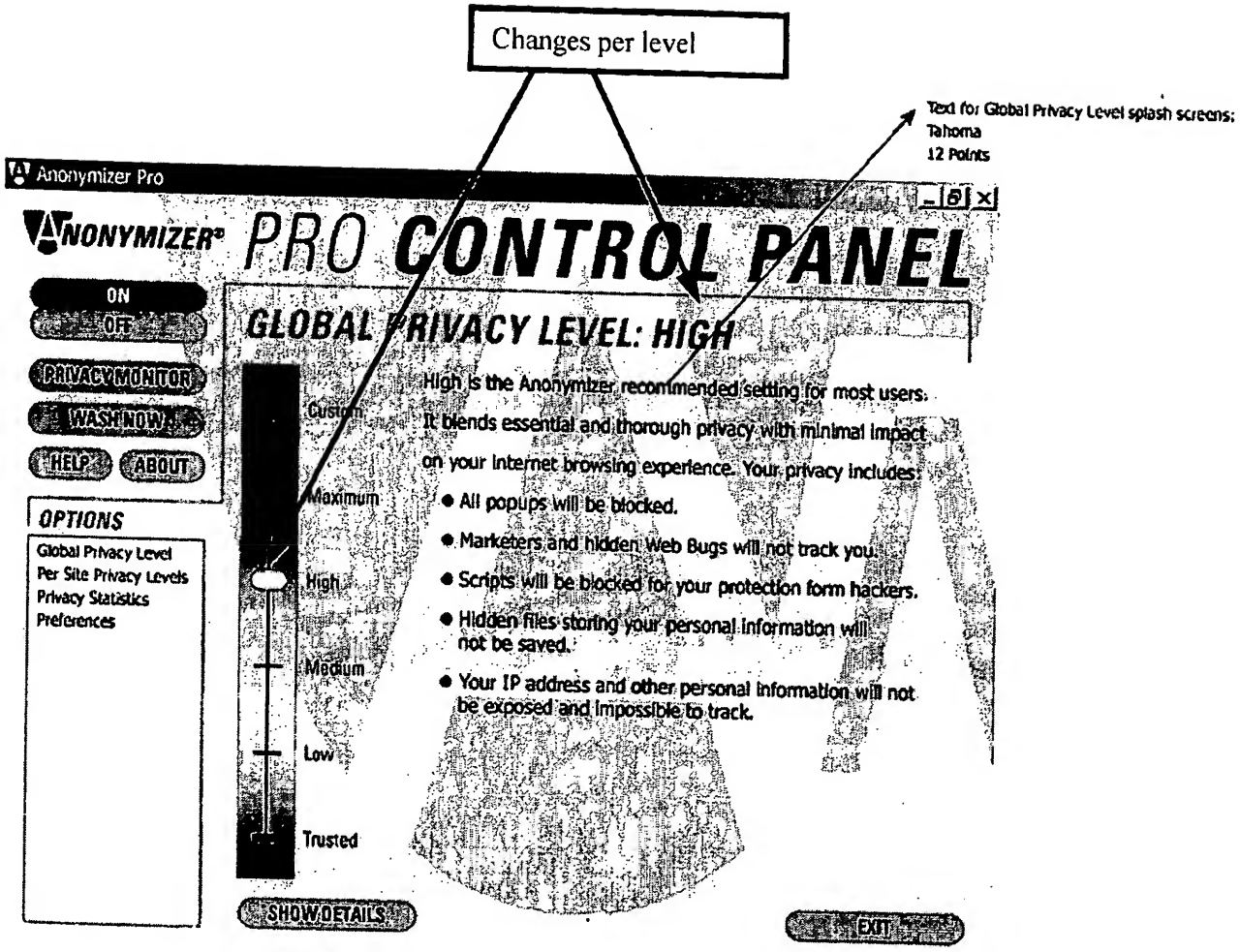
Changes per level
Text for Global Privacy Level splash screens:
Tahoma
12 Points
Anonymizer Pro
ANONYMIZER PRO CONTROL PANEL
ON
OFF
PRIVACY MONITOR
WASH NOW
HELP
ABOUT
OPTIONS
Global Privacy Level
Per Site Privacy Levels
Privacy Statistics
Preferences
GLOBAL PRIVACY LEVEL: HIGH
Custom
Maximum
High
Medium
Low
Trusted
High is the Anonymizer recommended setting for most users.
It blends essential and thorough privacy with minimal impact
on your Internet browsing experience. Your privacy includes:
All popups will be blocked.
Marketers and hidden Web Bugs will not track you.
Scripts will be blocked for your protection form hackers.
Hidden files storing your personal information will not be saved.
Your IP address and other personal information will not be exposed and impossible to track.
SHOW DETAILS
EXIT

FIG. 14

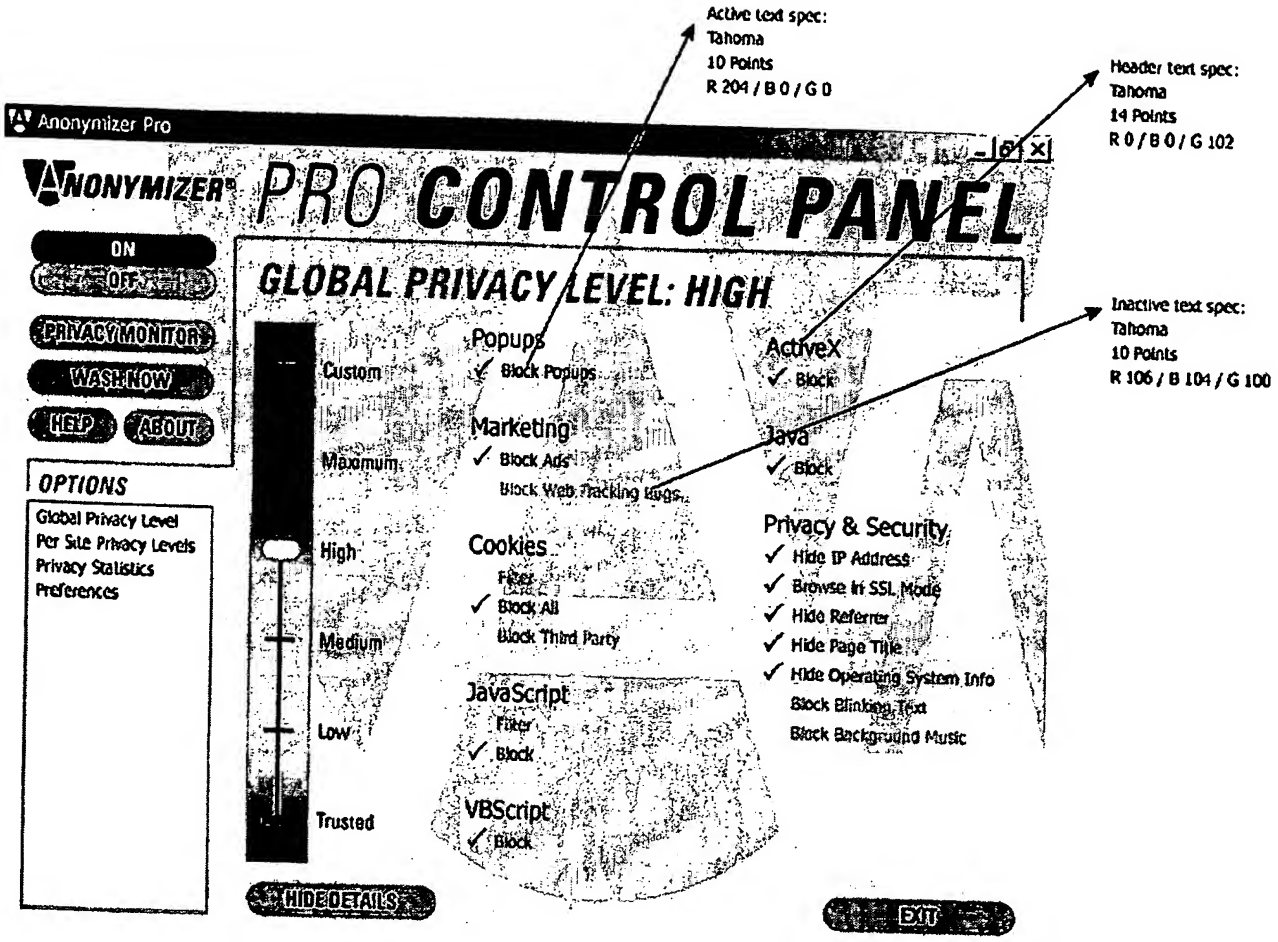
Active text spec:
Tahoma
10 Points
R 204 / B 0 / G 0
Header text spec:
Tahoma
14 Points
R 0 / B 0 / G 102
Inactive text spec:
Tahoma
10 Points
R 106 / B 104 / G 100
Anonymizer Pro
ANONYMIZER
PRO CONTROL PANEL
ON
OFF
PRIVACY MONITOR
WASH NOW
HELP
ABOUT
OPTIONS
Global Privacy Level
Per Site Privacy Levels
Privacy Statistics
Preferences
GLOBAL PRIVACY LEVEL: HIGH
Custom
Maximum
High
Medium
Low
Trusted
Popups
Block Popups
Marketing
Block Ads
Block Web Tracking Bugs
Cookies
Filter
Block All
Block Third Party
JavaScript
Filter
Block
VBScript
Block
ActiveX
Block
Java
Block
Privacy & Security
Hide IP Address
Browse in SSL Mode
Hide Referrer
Hide Page Title
Hide Operating System Info
Block Blinking Text
Block Background Music
HIDE DETAILS
EXIT

FIG. 15

Anonymizer Pro
ANONYMIZER® PRO CONTROL PANEL
ON
OFF
PRIVACY MONITOR
WASH NOW
HELP
ABOUT
OPTIONS
Global Privacy Level
Per Site Privacy Levels
Privacy Statistics
Preferences
GLOBAL PRIVACY LEVEL: CUSTOM
Custom
Maximum
High
Medium
Low
Trusted
Popups
Block Popups
Marketing
Block Ads
Block Web Tracking Bugs
Cookies
Filter
Block All
Block Third Party
JavaScript
Filter
Block
VBScript
Block
ActiveX
Block
Java
Block
Privacy & Security
Hide IP Address
Browse in SSL Mode
Hide Referrer
Hide Page Title
Hide Operating System Info
Block Blinking Text
Block Background Music
EXIT

FIG. 16

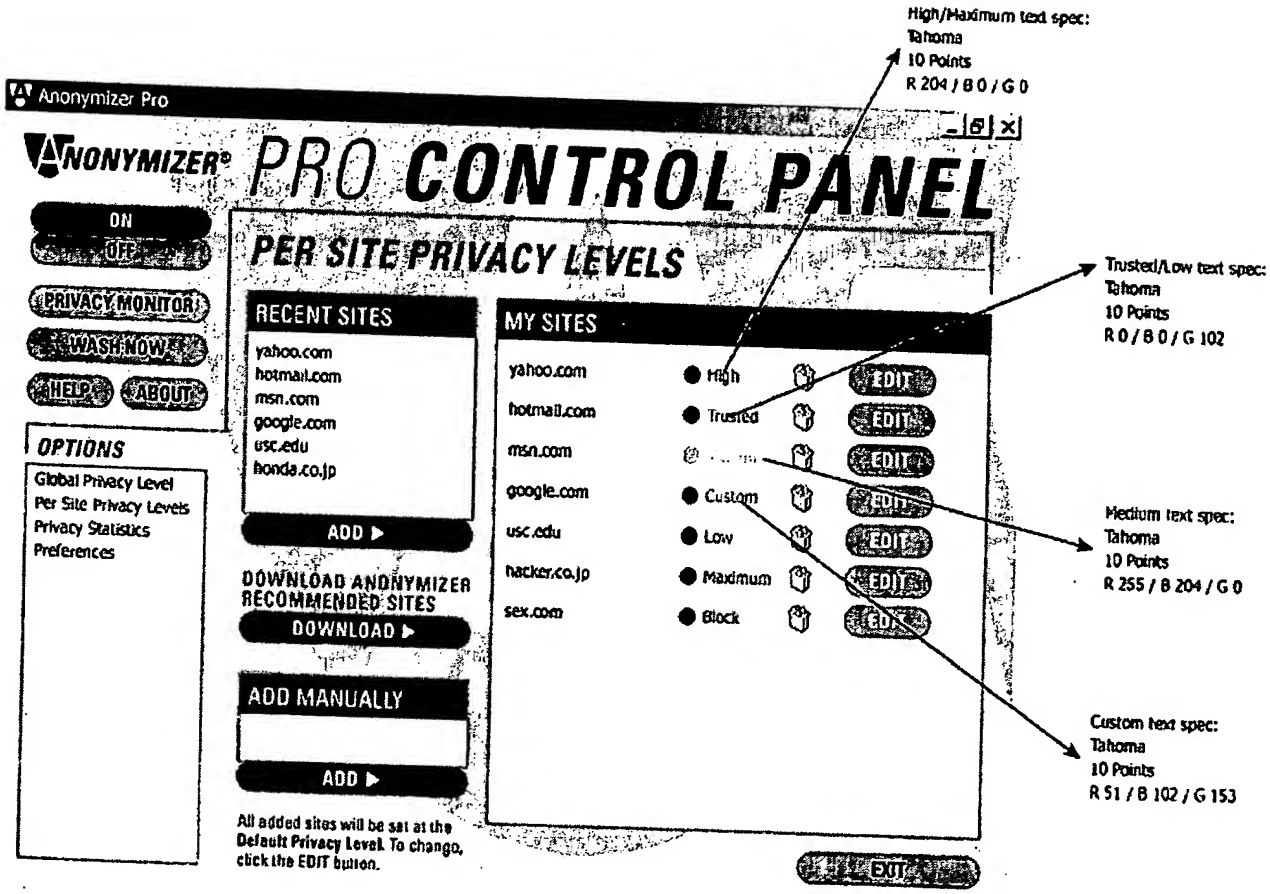
Anonymizer Pro
ANONYMIZER® PRO CONTROL PANEL
ON
OFF
PRIVACY MONITOR
WASH NOW
HELP
ABOUT
OPTIONS
Global Privacy Level
Per Site Privacy Levels
Privacy Statistics
Preferences
PER SITE PRIVACY LEVELS
RECENT SITES
yahoo.com
hotmail.com
msn.com
google.com
usc.edu
honda.co.jp
ADD ▶
DOWNLOAD ANONYMIZER RECOMMENDED SITES
DOWNLOAD ▶
ADD MANUALLY
ADD ▶
All added sites will be set at the Default Privacy Level. To change, click the EDIT button.
MY SITES
yahoo.com High EDIT
hotmail.com Trusted EDIT
msn.com EDIT
google.com Custom EDIT
usc.edu Low EDIT
hacker.co.jp Maximum EDIT
sex.com Block EDIT
EXIT
High/Maximum text spec:
Tahoma
10 Points
R 204 / B 0 / G 0
Trusted/Low text spec:
Tahoma
10 Points
R 0 / B 0 / G 102
Medium text spec:
Tahoma
10 Points
R 255 / B 204 / G 0
Custom text spec:
Tahoma
10 Points
R 51 / B 102 / G 153

FIG. 17

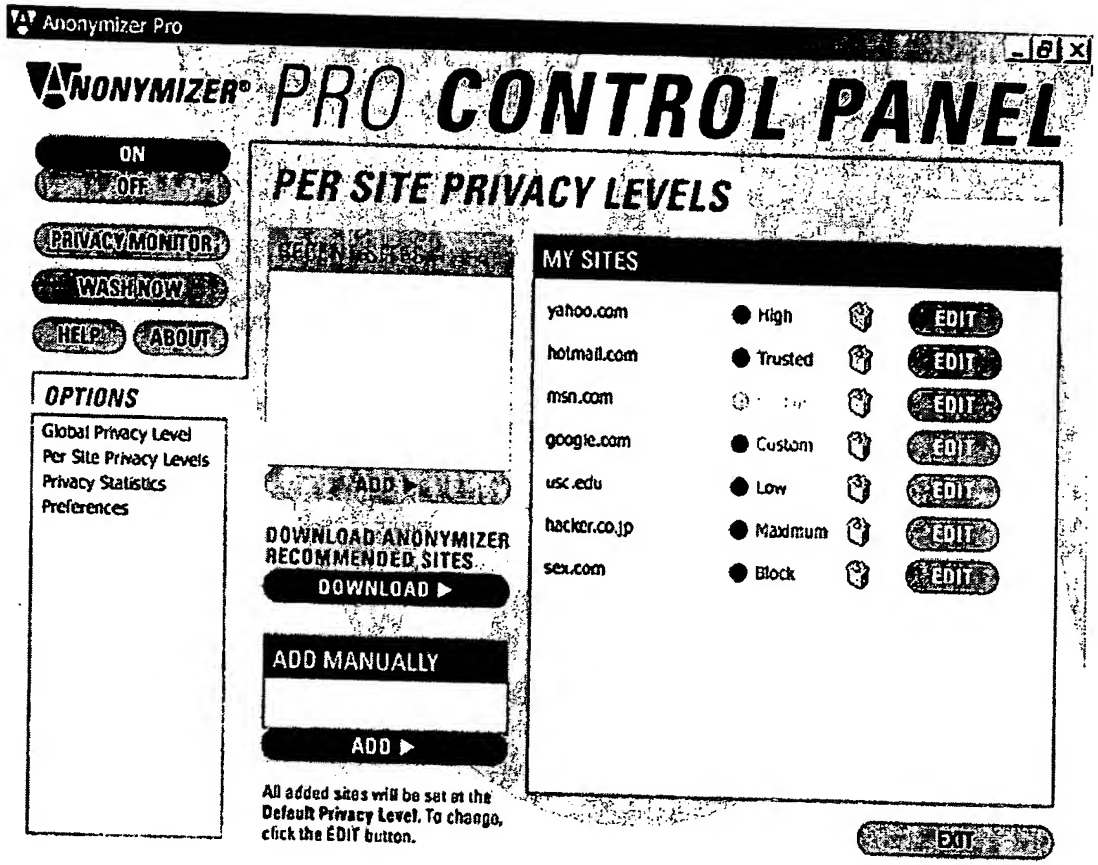
Anonymizer Pro
ANONYMIZER® PRO CONTROL PANEL
ON
OFF
PRIVACY MONITOR
WASH NOW
HELP
ABOUT
OPTIONS
Global Privacy Level
Per Site Privacy Levels
Privacy Statistics
Preferences
PER SITE PRIVACY LEVELS
ADD ▶
DOWNLOAD ANONYMIZER RECOMMENDED SITES
DOWNLOAD ▶
ADD MANUALLY
ADD ▶
All added sites will be set on the Default Privacy Level. To change, click the EDIT button.
MY SITES
yahoo.com High EDIT
hotmail.com Trusted EDIT
msn.com EDIT
google.com Custom EDIT
usc.edu Low EDIT
hacker.co.jp Maximum EDIT
sex.com Block EDIT
EXIT

FIG. 18

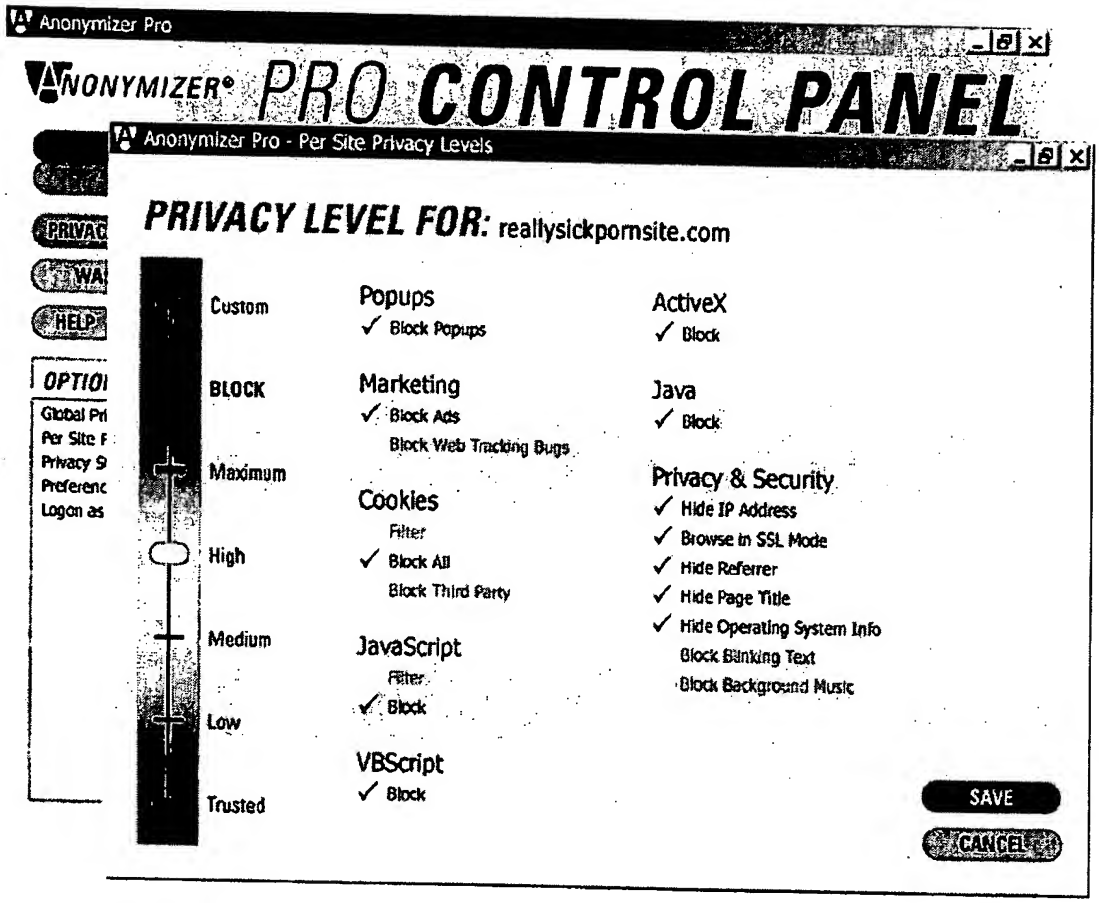
Anonymizer Pro
ANONYMIZER® PRO CONTROL PANEL
Anonymizer Pro - Per Site Privacy Levels
PRIVACY LEVEL FOR: reallysickpornsite.com
Custom
BLOCK
Maximum
High
Medium
Low
Trusted
Popups
✓ Block Popups
Marketing
✓ Block Ads
Block Web Tracking Bugs
Cookies
Filter
✓ Block All
Block Third Party
JavaScript
Filter
✓ Block
VBScript
✓ Block
ActiveX
✓ Block
Java
✓ Block
Privacy & Security
✓ Hide IP Address
✓ Browse in SSL Mode
✓ Hide Referrer
✓ Hide Page Title
✓ Hide Operating System Info
Block Blinking Text
Block Background Music
SAVE
CANCEL

FIG. 19

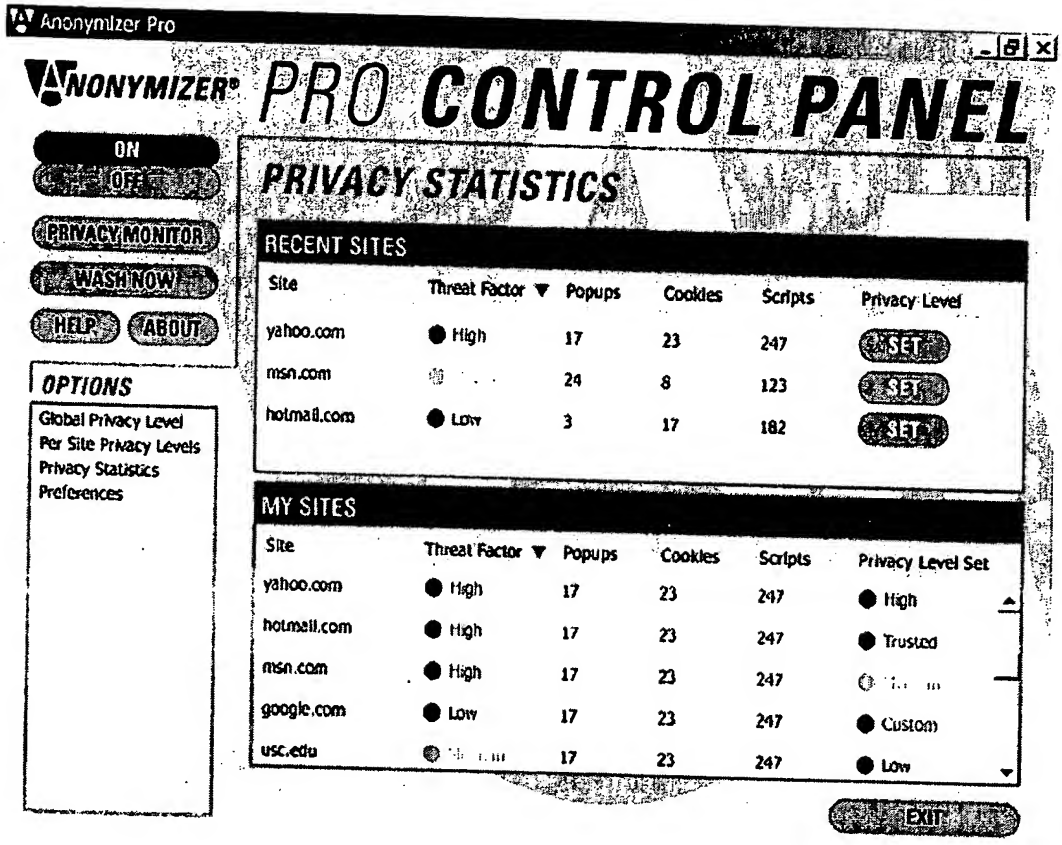
Anonymizer Pro
ANONYMIZER® PRO CONTROL PANEL
ON
OFF
PRIVACY MONITOR
WASH NOW
HELP
ABOUT
OPTIONS
Global Privacy Level
Per Site Privacy Levels
Privacy Statistics
Preferences
PRIVACY STATISTICS
RECENT SITES
Site | Threat Factor | Popups | Cookies | Scripts | Privacy Level
yahoo.com | High | 17 | 23 | 247 | SET
msn.com | | 24 | 8 | 123 | SET
hotmail.com | Low | 3 | 17 | 182 | SET
MY SITES
Site | Threat Factor | Popups | Cookies | Scripts | Privacy Level Set
yahoo.com | High | 17 | 23 | 247 | High
hotmail.com | High | 17 | 23 | 247 | Trusted
msn.com | High | 17 | 23 | 247
google.com | Low | 17 | 23 | 247 | Custom
usc.edu | | 17 | 23 | 247 | Low
EXIT

FIG. 20

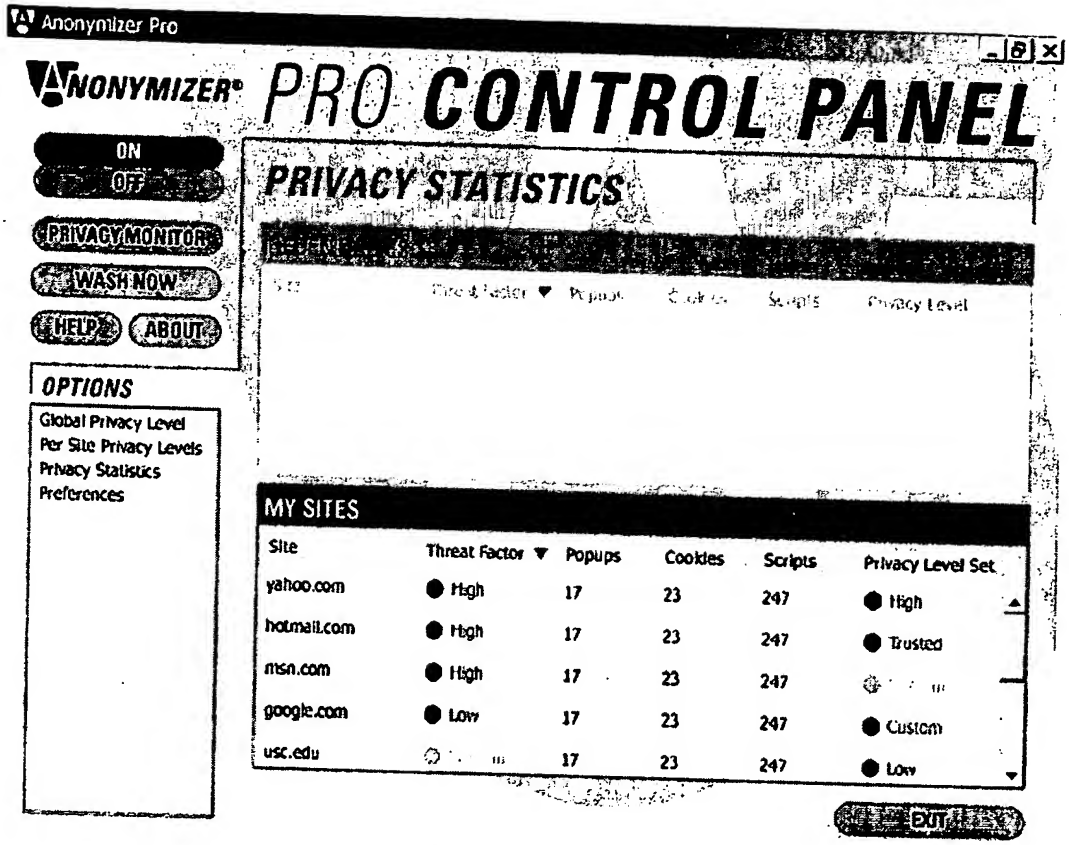
Anonymizer Pro
ANONYMIZER® PRO CONTROL PANEL
ON
OFF
PRIVACY MONITOR
WASH NOW
HELP
ABOUT
OPTIONS
Global Privacy Level
Per Site Privacy Levels
Privacy Statistics
Preferences
PRIVACY STATISTICS
MY SITES
Site
Threat Factor
Popups
Cookies
Scripts
Privacy Level Set
yahoo.com
High
17
23
247
High
hotmail.com
High
17
23
247
Trusted
msn.com
High
17
23
247
google.com
Low
17
23
247
Custom
usc.edu
17
23
247
Low
EXIT

FIG. 21

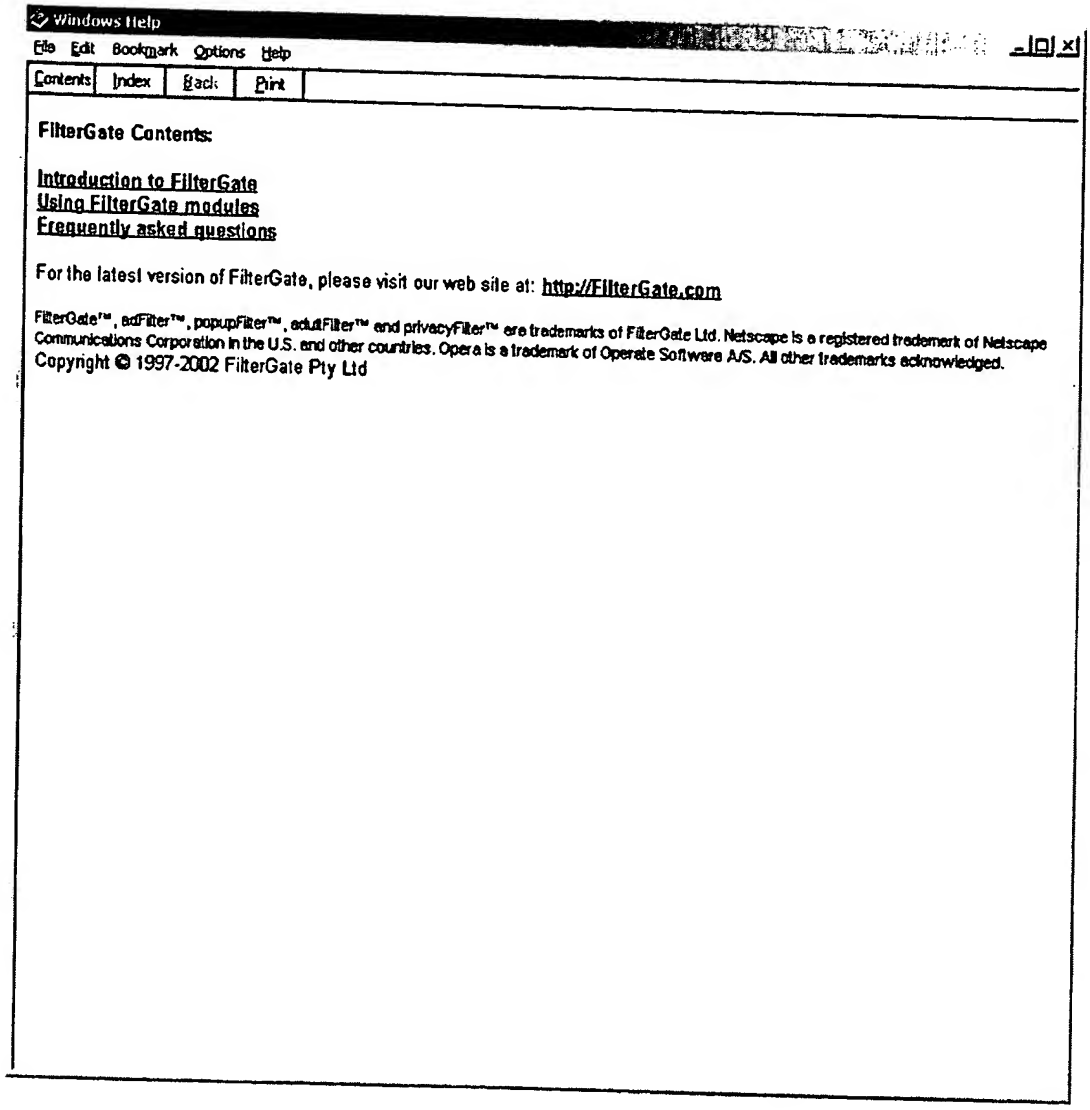
Windows Help
File Edit Bookmark Options Help
Contents Index Back Print
FilterGate Contents:
Introduction to FilterGate
Using FilterGate modules
Frequently asked questions
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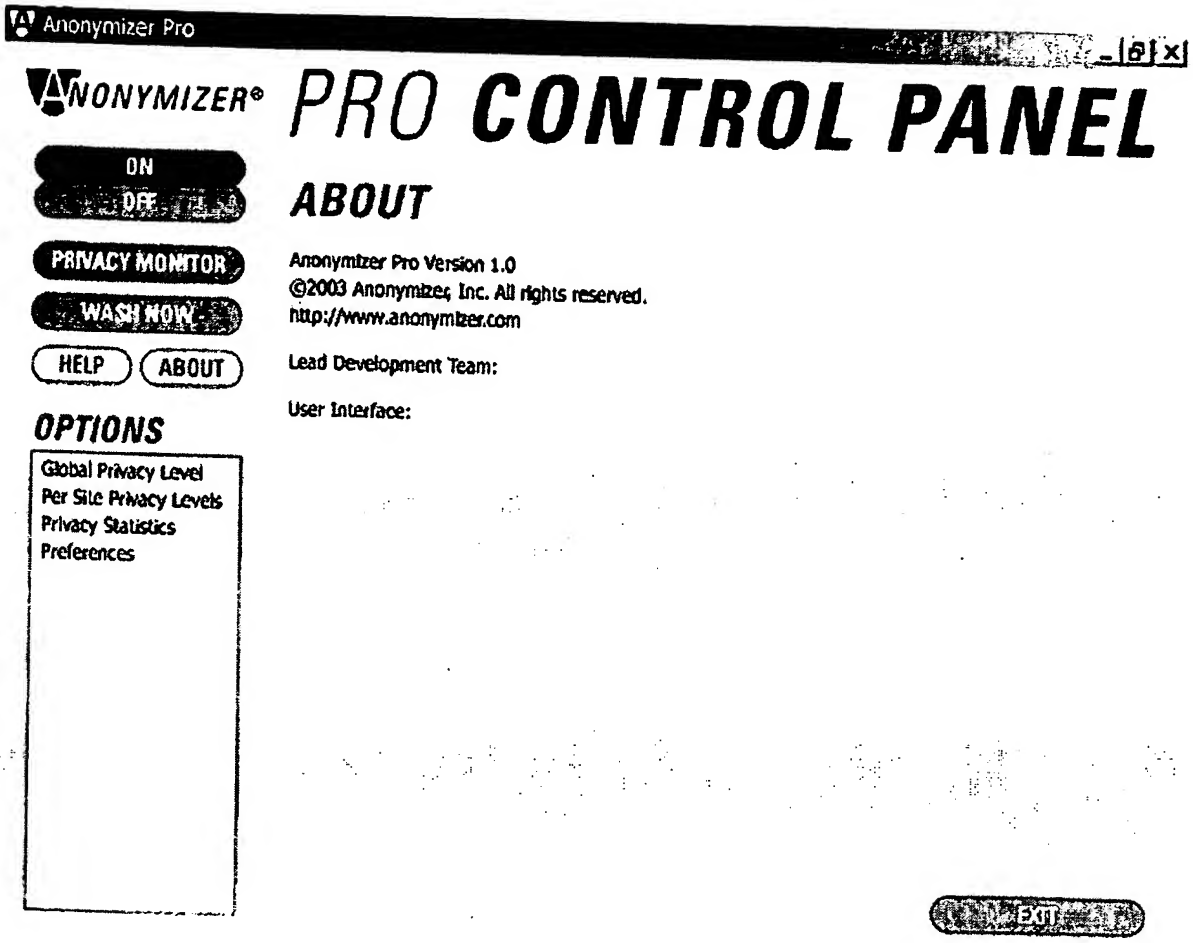
FIG. 22


Anonymizer Pro
ANONYMIZER®
PRO CONTROL PANEL
ON
OFF
PRIVACY MONITOR
WASH NOW
HELP
ABOUT
OPTIONS
Global Privacy Level
Per Site Privacy Levels
Privacy Statistics
Preferences
ABOUT
Anonymizer Pro Version 1.0
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http://www.anonymizer.com
Lead Development Team:
User Interface:
EXIT

FIG. 23

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